

171642

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 11/15/05 Serial # 161658132 Priority Application Date _____

Your Name M. Lewis Examiner # _____

AU 2890 Phone 952-4838 Room 5A30

In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need.

Need before
11/23

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:

Primary Refs Nonpatent Literature _____ Other _____
Secondary Refs Foreign Patents _____
Teaching Refs _____What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 7-11 & 13-19

Laterally Diffused Metal Oxide Semiconductor device

Problem: See pages 2-4 in specification

Solution: 11 4-5 in specification

- Multiple gate fingers
- RF power LD MOS transistor
- See amended claim 7 changes
- See new independent claim 13.

US 6,744,117

5,369,045

Staff Use Only

Searcher: *Spock, Lefk*Type of Search
Structure (#)Vendor
NIN

Searcher Phone: _____

Bibliography Dialog

Searcher Location: STIC-EIC2800, JEF-4B68

Litigation _____

Questel/Orbit _____

Date Searcher Picked Up: 11/17/05

Fulltext

Lexis/Nexis _____

Date Completed: _____

Patent Family

WWW/Internet _____

Searcher Prep/Rev Time: 160

Other *021. 08/2005*

Other WEST

Online Time: 145-

File 342:Derwent Patents Citation Indx 1978-05/200572
(c) 2005 Thomson Derwent
S1 3 PN=(US 6744117 OR US 5369045 OR US 5681761)

SYSTEM:OS - DIALOG OneSearch

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200573

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*File 350: For more current information, include File 331 in your search.

Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2005/Jul (Updated 051102)

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Set	Items	Description
S1	93	S1:S15
S2	44	S1 AND (LATERAL?(2N)DIFFUS? OR LATERAL?()DIFFUS?()MOSFET OR LATERAL?()DIFFUS?()METAL()OXID? OR LDMOS OR LD MOST OR METAL(-)OXID?() (TRANSIST? OR SEMICONDUCT?))
S3	2	S2 AND (MULTI? OR FIRST OR ONE OR TWO OR SECOND OR DUAL)(2-N)GATE???
S4	42	S2 NOT S3
S5	1	S4 AND GATE???(2N)FINGER? ?
S6	41	S4 NOT S5
S7	1	S6 AND (RF OR RADIO(3N)FREQUENC????? OR RADIOFREQUENC????? OR MAGNET?(3N)FIELD? OR (RF OR RADIO()FREQUENC????? OR RADIOFREQUENC?????)()POWER???)
S8	40	S6 NOT S7
S9	9	S8 AND (IMPURIT????????? OR DOPA????????? OR DOPE??? OR DOPI NG OR MIXTURE? ? OR BLEND? OR ADMIX? OR COMMIX? OR IMMIX? OR -INTERMIX? OR MIX? OR IMPREGNAT? OR COMPOSIT? OR COMPN? OR COMPSN? OR FORMULAT? OR INTERSPER? OR AMALGAM?)
S10	9	IDPAT (sorted in duplicate/non-duplicate order)
S11	9	IDPAT (primary/non-duplicate records only)
S12	31	S8 NOT S9
S13	1	S12 AND SINKER? ?
S14	30	S12 NOT S13
S15	0	S14 AND METAL?(2N) (CLAMP? ? OR RUNNER? ?)
S16	30	S14
S17	30	IDPAT (sorted in duplicate/non-duplicate order)
S18	28	IDPAT (primary/non-duplicate records only)

SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1898-2005/Nov W1
(c) 2005 Institution of Electrical Engineers

*File 2: Archive data back to 1898 has been added to File 2.

File 6:NTIS 1964-2005/Nov W1
(c) 2005 NTIS, Intl Cpyrgh All Rights Res

File 8:Ei Compendex(R) 1970-2005/Nov W1
(c) 2005 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2005/Nov W2
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2005/Oct
(c) 2005 ProQuest Info&Learning

File 65:Inside Conferences 1993-2005/Nov W2
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File 94:JICST-Eplus 1985-2005/Sep W2
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File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Oct
(c) 2005 The HW Wilson Co.

File 144:Pascal 1973-2005/Nov W1
(c) 2005 INIST/CNRS

File 305:Analytical Abstracts 1980-2005/Nov W2
(c) 2005 Royal Soc Chemistry

*File 305: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.

File 315:ChemEng & Biotec Abs 1970-2005/Oct
(c) 2005 DECHEMA

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200573
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*File 350: For more current information, include File 331 in your search.
Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2005/Jul(Updated 051102)
(c) 2005 JPO & JAPIO

File 344:Chinese Patents Abs Aug 1985-2005/May
(c) 2005 European Patent Office

File 371:French Patents 1961-2002/BOP1 200209
(c) 2002 INPI. All rts. reserv.

*File 371: This file is not currently updating. The last update is 200209.

File 23:CSA Technology Research Database 1963-2005/Nov
(c) 2005 CSA.

File 987:TULSA (Petroleum Abs) 1965-2005/Nov W1
(c)2005 The University of Tulsa

*File 987: GR (Greece), IS (Iceland), SG (Singapore), and SI (Slovenia) have been added to AC=.

Set	Items	Description
S1	2252	AU=(JOHANSSON, J? OR JOHANSSON J? OR EKENSTAM, N? OR EKENS-TAM N?)
S2	6	S1 AND (LATERAL?(2N)DIFFUS? OR LATERAL?()DIFFUS?() (MOSFET - OR MOS) OR LATERAL?()DIFFUS?()METAL()OXID? OR LDMOS OR LDHOST OR METAL()OXID?() (TRANSIST? OR SEMICONDUCT?))
S3	6	RD (unique items)
S4	2246	S1 NOT S2
S5	0	S4 AND GATE???(2N)FINGER? ?
S6	28	S4 AND (RF OR RADIO(3N)FREQUENC????? OR RADIOFREQUENC????? OR MAGNET?(3N)FIELD? OR (RF OR RADIO()FREQUENC????? OR RADIOFREQUENC?????)(POWER??? OR LDMOS))
S7	18	RD (unique items)
S8	0	S7 AND (METAL? OR SINGLE)(2N)(LAYER??? OR FILM??? OR COAT?-? OR SPACER??? OR INTERLAYER??? OR INTER()LAYER?????)
S9	0	S7 AND METAL?(2N)(CLAMP? ? OR RUNNER? ?)
S10	189060	LATERAL?(2N)DIFFUS? OR LATERAL?()DIFFUS?() (MOSFET OR MOS) - OR LATERAL?()DIFFUS?()METAL()OXID? OR LDMOS OR LDHOST OR METAL()OXID?() (TRANSIST? OR SEMICONDUCT?)
S11	74924	(MULTI? OR FIRST OR ONE OR TWO OR SECOND OR DUAL)(2N)GATE?-???
S12	839	GATE???(2N)FINGER? ?
S13	189	FINGER? ?(2N)INTERCONNECT????
S14	1021	S12:S13
S15	1693093	RF OR RADIO(3N)FREQUENC????? OR RADIOFREQUENC????? OR MAGNET?(3N)FIELD? OR (RF OR RADIO()FREQUENC????? OR RADIOFREQUENC?????)(POWER??? OR LDMOS)
S16	1841657	(FIRST OR ONE OR TWO OR SECOND OR SOURC? OR DRAIN?????)(2N) - (REGION? ? OR AREA? ? OR PART????? OR PORTION??? OR SEGMENT??? OR SECTION??? OR CHANNEL????? OR TRENCH? OR GROOVE? OR BURIED - OR VESSEL?)
S17	3487	METAL?(2N)(CLAMP? ? OR RUNNER? ?)
S18	722518	(METAL? OR SINGLE)(2N)(LAYER??? OR FILM??? OR COAT??? OR SPACER??? OR INTERLAYER??? OR INTER()LAYER?????)
S19	4268	SINKER? ?
S20	11813850	(IMPUR????????? OR DOPA????????? OR DOPE??? OR DOPING OR M-IXTURE? ? OR BLEND? OR ADMIX? OR COMMIX? OR IMMIX? OR INTERMI-X? OR MIX? OR IMPREGNAT? OR COMPOSIT? OR COMPN? OR COMPSN? OR FORMULAT? OR INTERSPER? OR AMALGAM?)
S21	5474	S10 AND S11
S22	12	S21 AND S14
S23	8	RD (unique items)
S24	5462	S21 NOT S22
S25	64	S24 AND S15
S26	27	S25 AND S16
S27	4	S25 AND (S17 OR S18)
S28	4	RD (unique items)
S29	23	S26 NOT S27
S30	0	S29 AND S19
S31	8	S29 AND S20
S32	8	RD (unique items)
S33	15	S29 NOT S31
S34	14	RD (unique items)
S35	0	S34 AND FINGER? ?
S36	1	S34 AND (LDD OR LATERAL?()DOUBL?()DIFFUS? OR LATERAL?()DOUBL?()DIFFUS?()MOSFET)
S37	13	S34 NOT S36

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10/658,137

S38 27 S14 AND S18
S39 0 S38 AND S17
S40 4 S38 AND S10
S41 4 RD (unique items)
S42 85 S17 AND S18
S43 0 S42 AND S19
S44 14 S42 AND S16
S45 0 S44 AND S15
S46 0 S44 AND S12
S47 5 S44 AND S20
S48 5 RD (unique items)
S49 10263 S10 AND S18
S50 3 S49 AND S17
S51 3 RD (unique items)